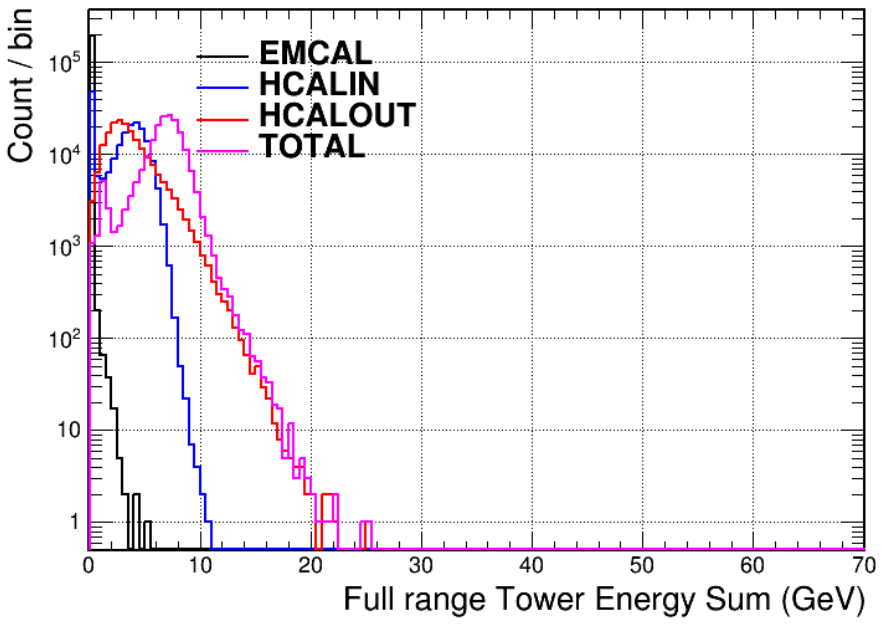
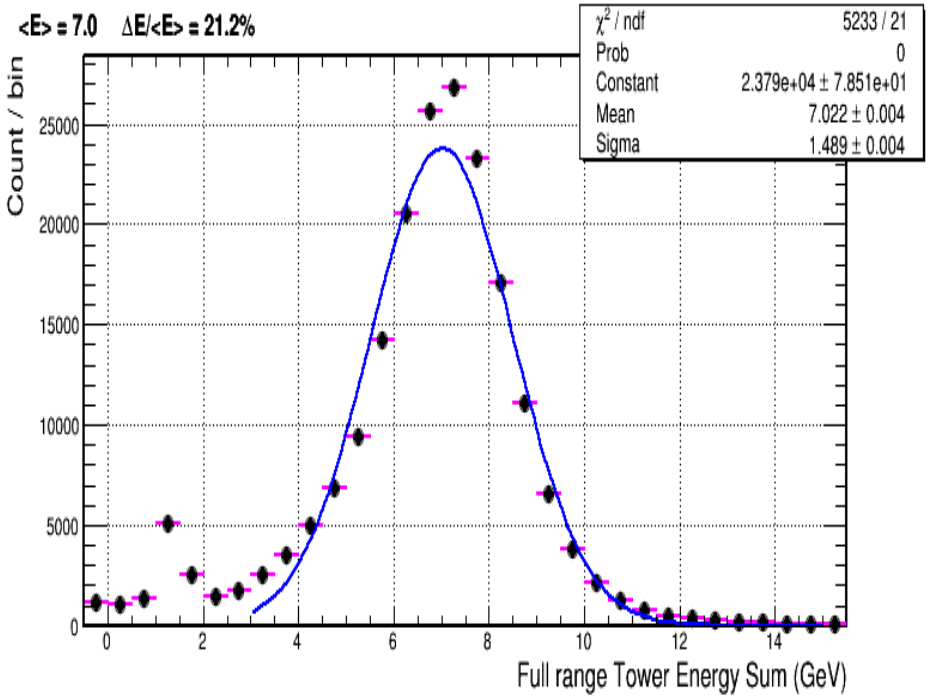
HCAL standalone data

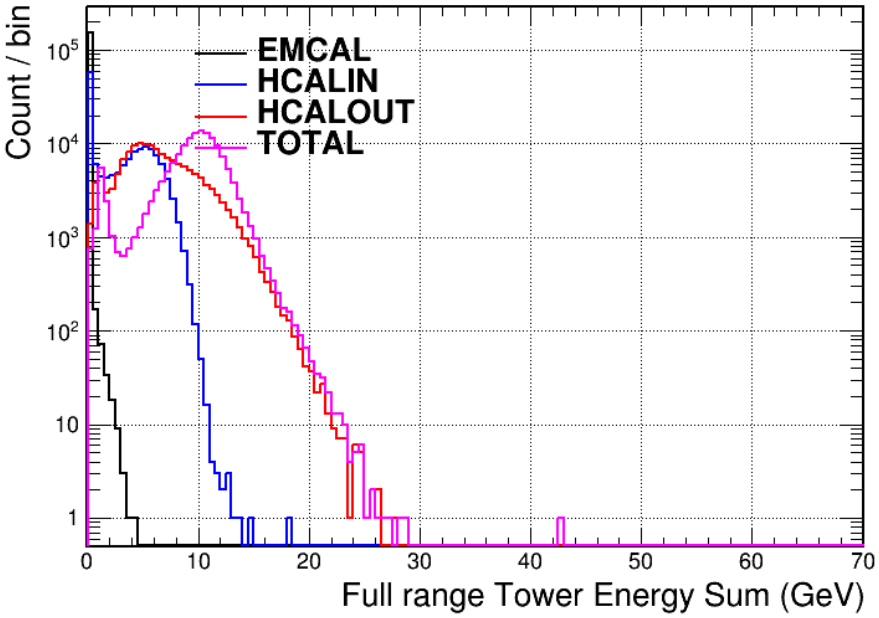
Abhisek

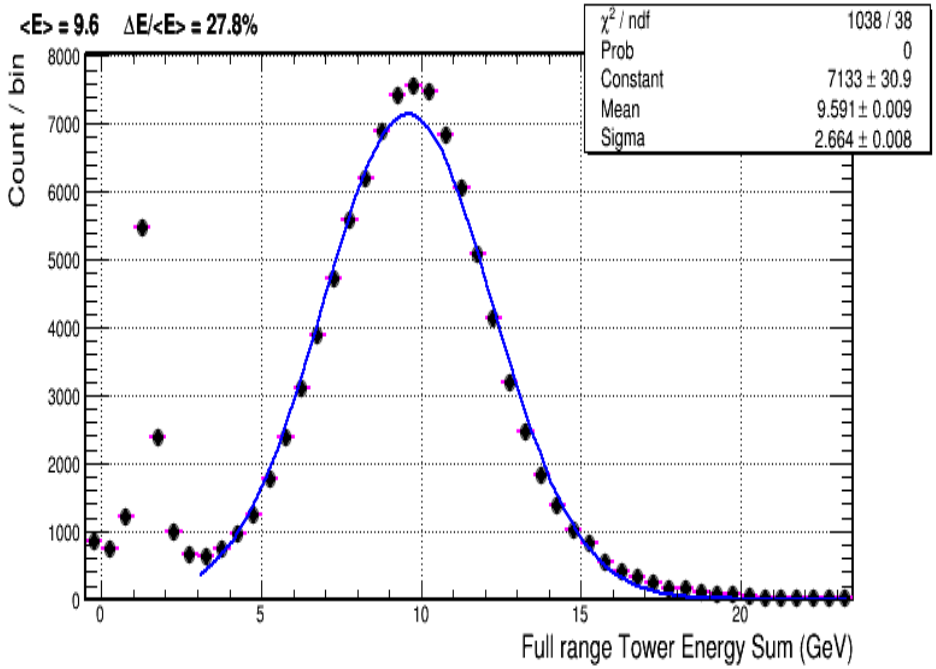
-8 GeV


EMCAL
HCALIN
HCALOUT
TOTAL
Count / bin
Full range Tower Energy Sum (GeV)

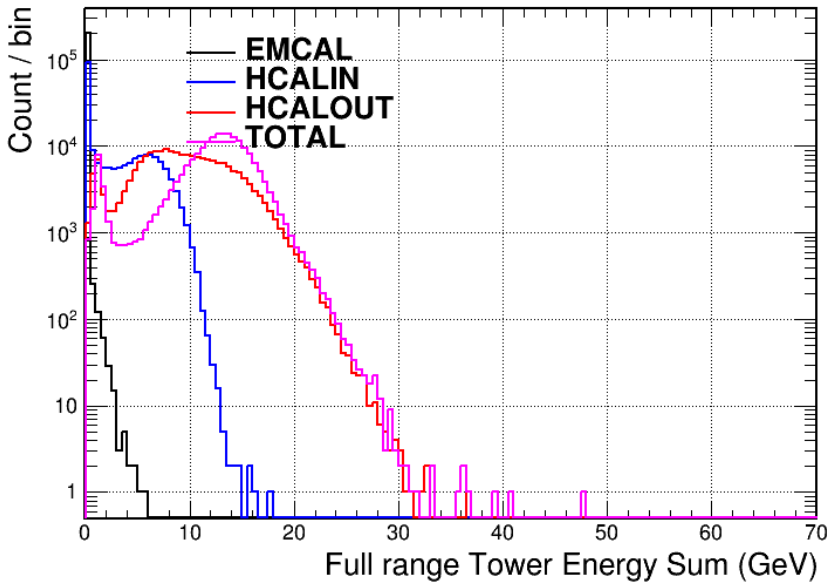

<E> = 7.0 ΔE/<E> = 21.2%
χ² / ndf 5233 / 21
Prob 0
Constant 2.379e+04 ± 7.851e+01
Mean 7.022 ± 0.004
Sigma 1.489 ± 0.004
Count / bin
Full range Tower Energy Sum (GeV)

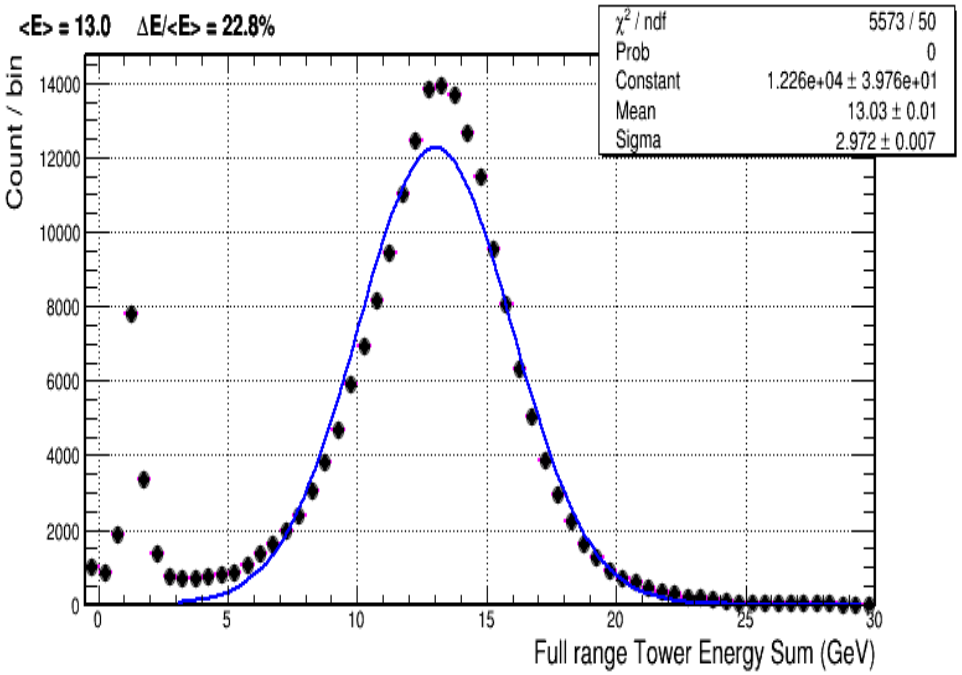
-12 GeV


EMCAL
HCALIN
HCALOUT
TOTAL
Count / bin
Full range Tower Energy Sum (GeV)

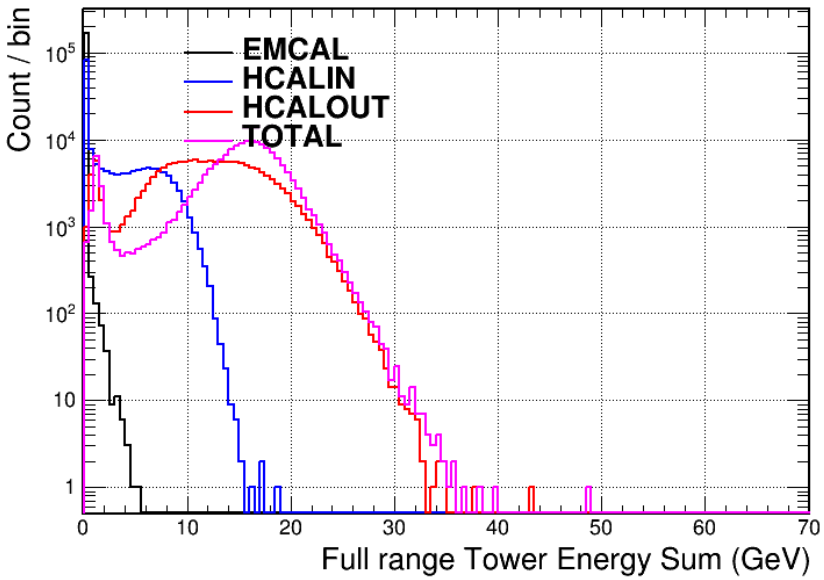

<E> = 9.6 ΔE/<E> = 27.8%
χ² / ndf 1038 / 38
Prob 0
Constant 7133 ± 30.9
Mean 9.591 ± 0.009
Sigma 2.664 ± 0.008
Count / bin
Full range Tower Energy Sum (GeV)

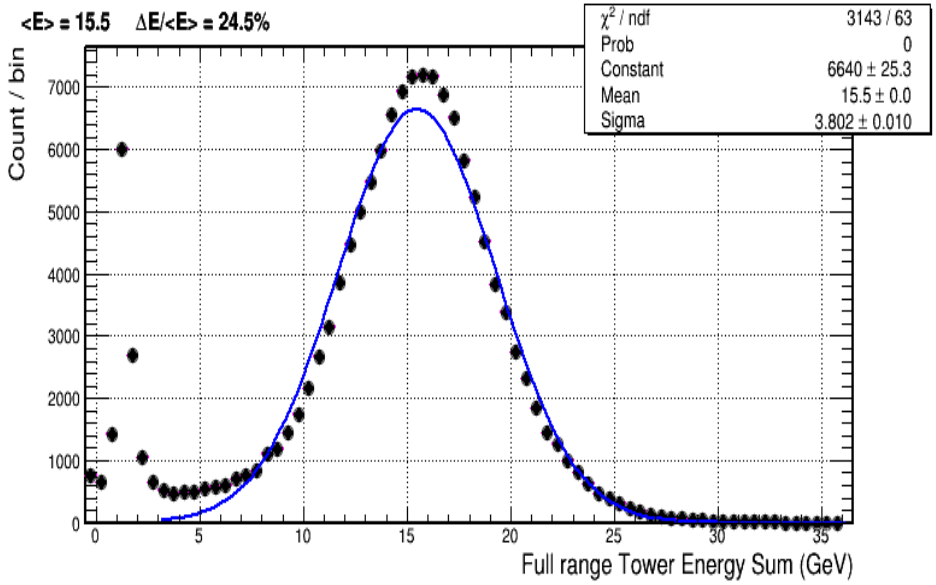
-16 GeV


EMCAL
HCALIN
HCALOUT
TOTAL
Count / bin
Full range Tower Energy Sum (GeV)

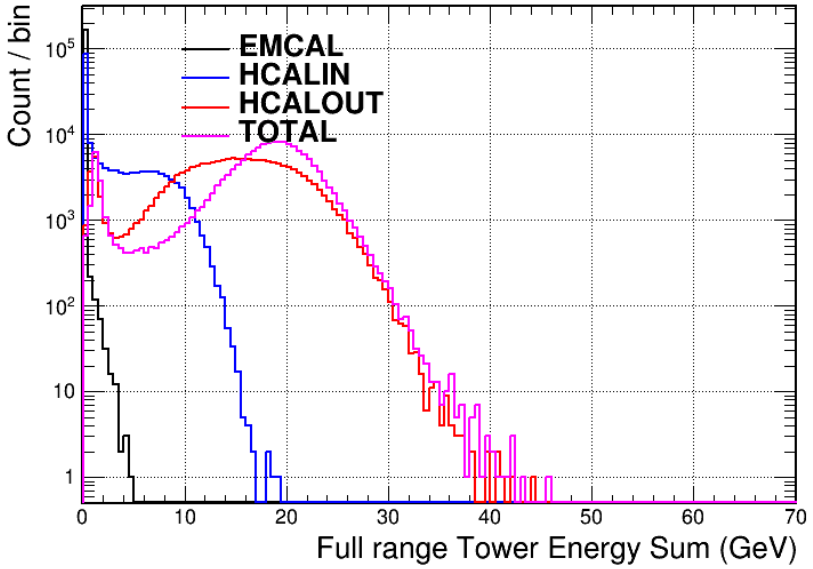

<E> = 13.0 ΔE/<E> = 22.8%
χ² / ndf 5573 / 50
Prob 0
Constant 1.226e+04 ± 3.976e+01
Mean 13.03 ± 0.01
Sigma 2.972 ± 0.007
Count / bin
Full range Tower Energy Sum (GeV)

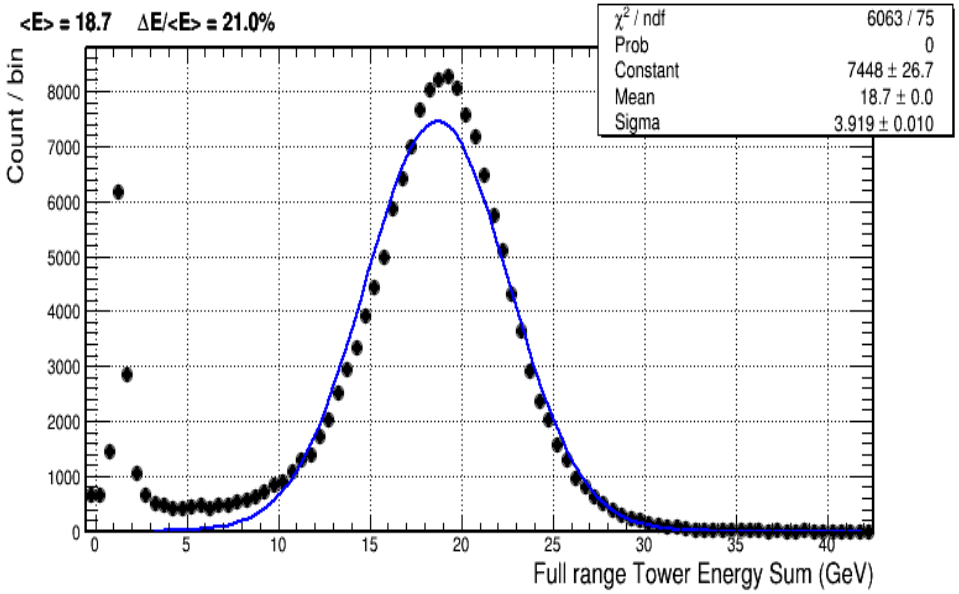
-20 GeV


EMCAL
HCALIN
HCALOUT
TOTAL
Count / bin
Full range Tower Energy Sum (GeV)

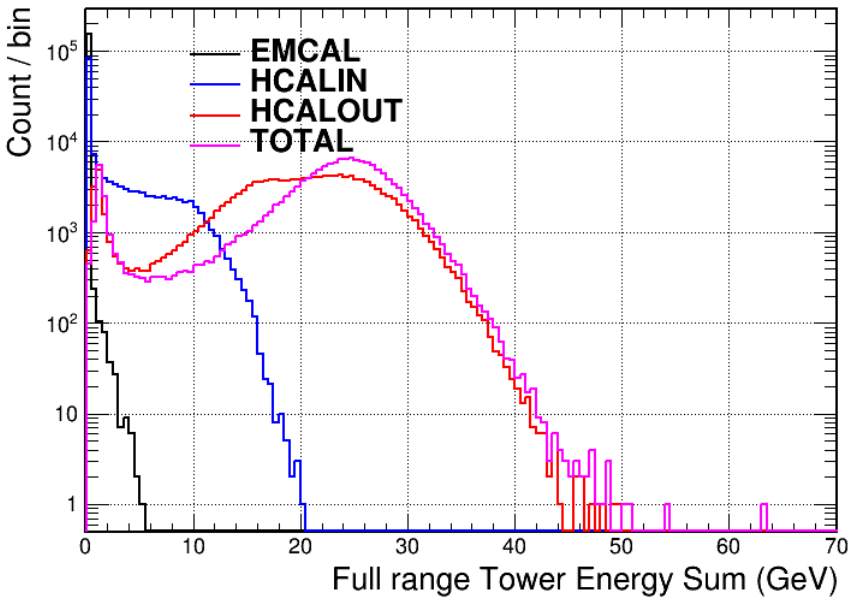

<E> = 15.5 ΔE/<E> = 24.5%
χ² / ndf 3143 / 63
Prob 0
Constant 6640 ± 25.3
Mean 15.5 ± 0.0
Sigma 3.802 ± 0.010
Count / bin
Full range Tower Energy Sum (GeV)

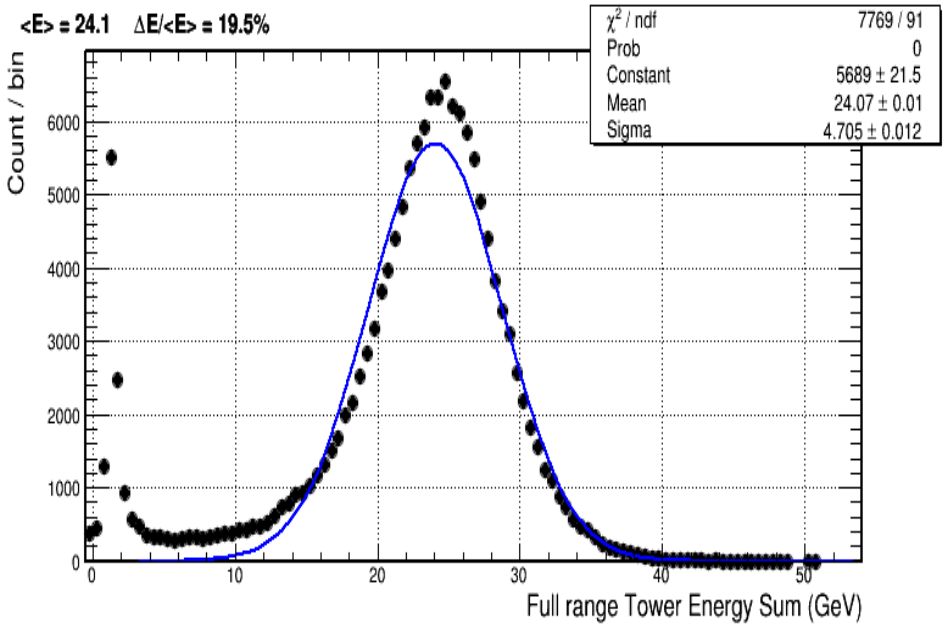
-24 GeV


EMCAL
HCALIN
HCALOUT
TOTAL
Count / bin
Full range Tower Energy Sum (GeV)

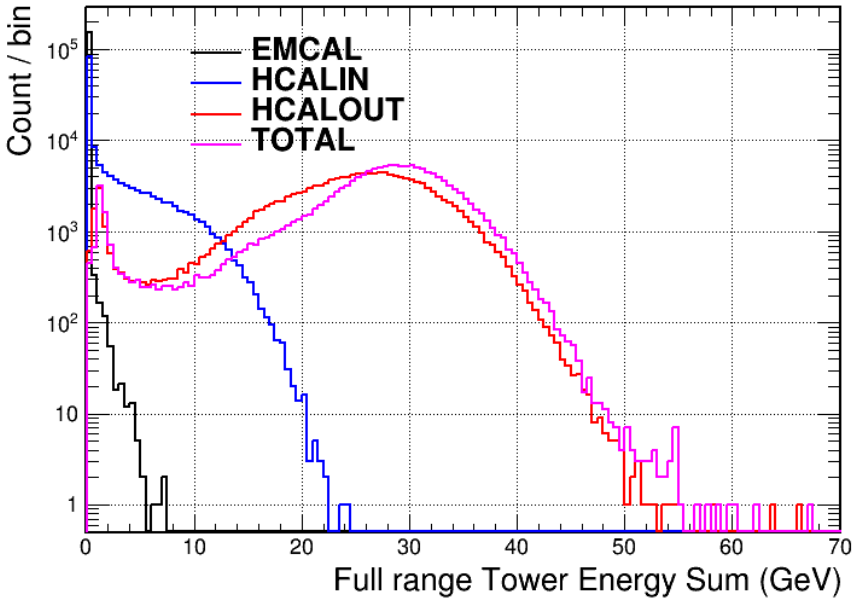

<E> = 18.7 ΔE/<E> = 21.0%
χ² / ndf 6063 / 75
Prob 0
Constant 7448 ± 26.7
Mean 18.7 ± 0.0
Sigma 3.919 ± 0.010
Count / bin
Full range Tower Energy Sum (GeV)

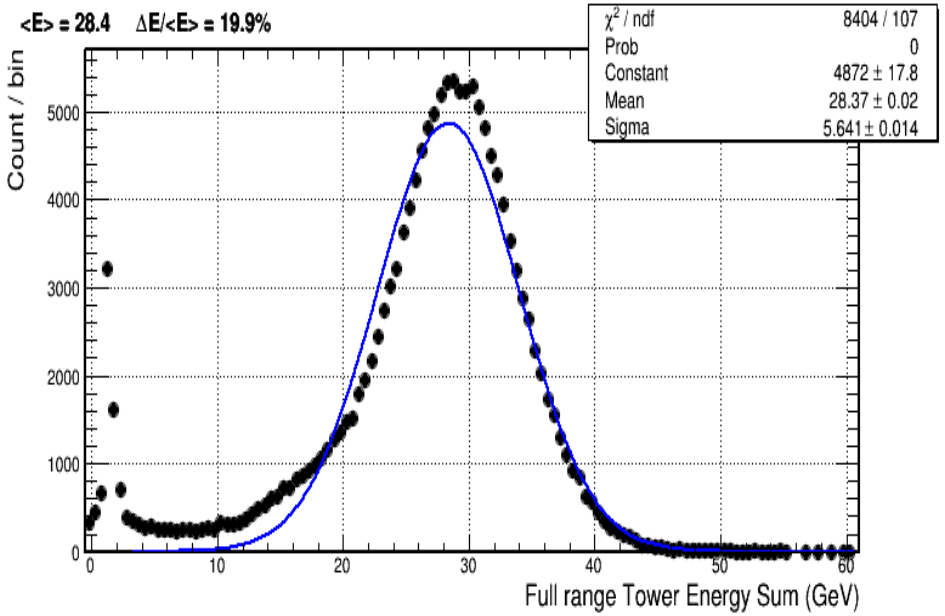
-32 GeV


EMCAL
HCALIN
HCALOUT
TOTAL
Count / bin
Full range Tower Energy Sum (GeV)

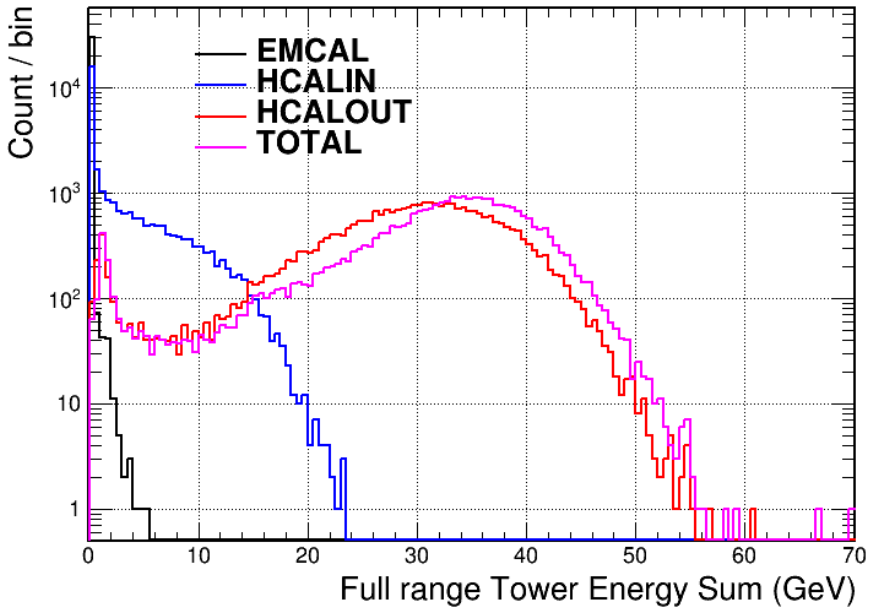

<E> = 24.1 ΔE/<E> = 19.5%
χ² / ndf 7769 / 91
Prob 0
Constant 5689 ± 21.5
Mean 24.07 ± 0.01
Sigma 4.705 ± 0.012
Count / bin
Full range Tower Energy Sum (GeV)

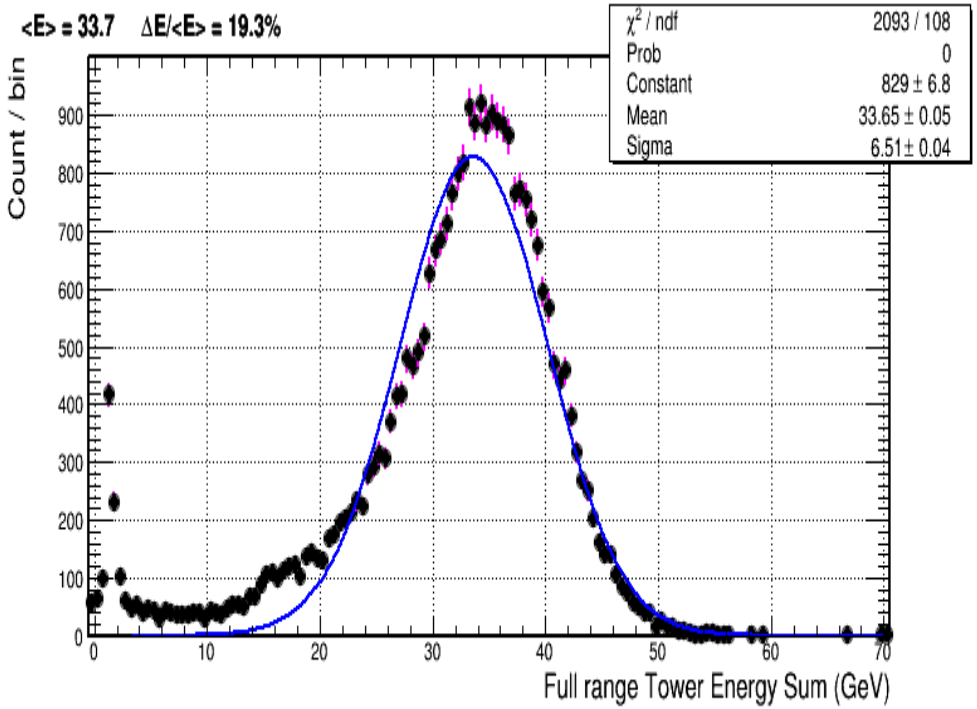
+40 GeV


EMCAL
HCALIN
HCALOUT
TOTAL
Count / bin
Full range Tower Energy Sum (GeV)

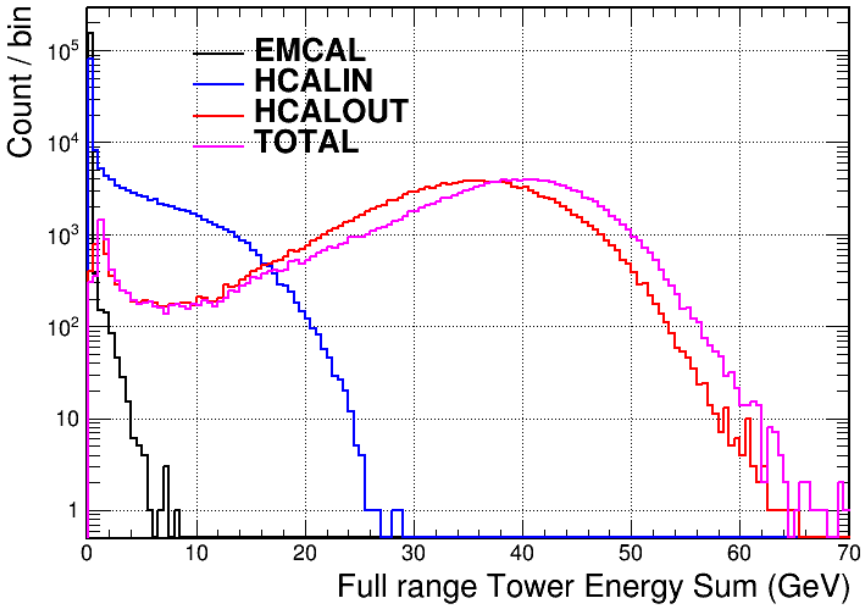

<E> = 28.4 ΔE/<E> = 19.9%
χ² / ndf 8404 / 107
Prob 0
Constant 4872 ± 17.8
Mean 28.37 ± 0.02
Sigma 5.641 ± 0.014
Count / bin
Full range Tower Energy Sum (GeV)

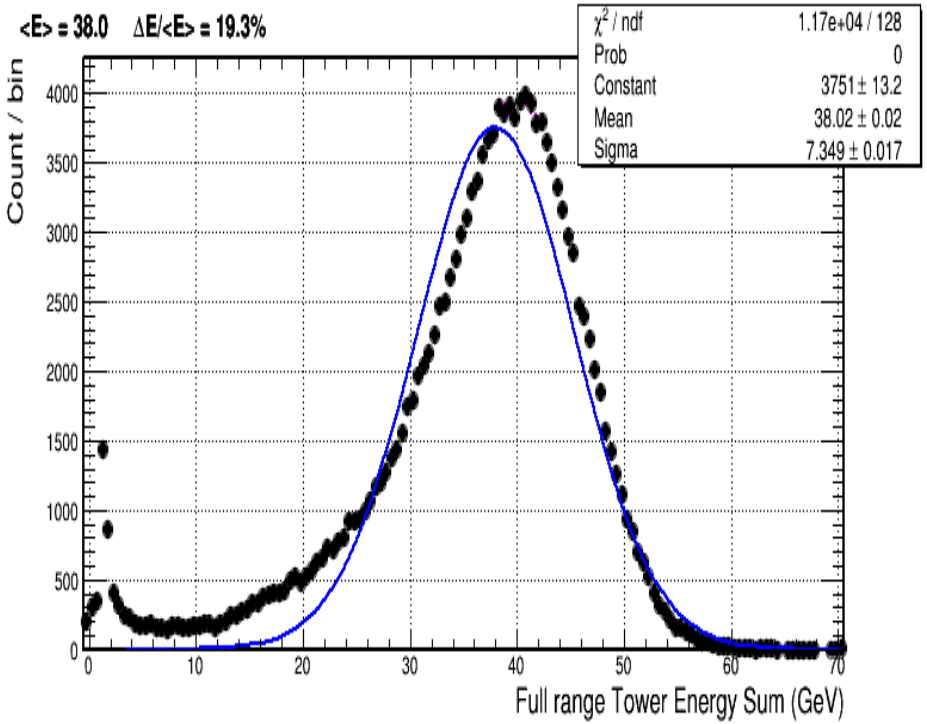
+50 GeV


EMCAL
HCALIN
HCALOUT
TOTAL
Count / bin
Full range Tower Energy Sum (GeV)

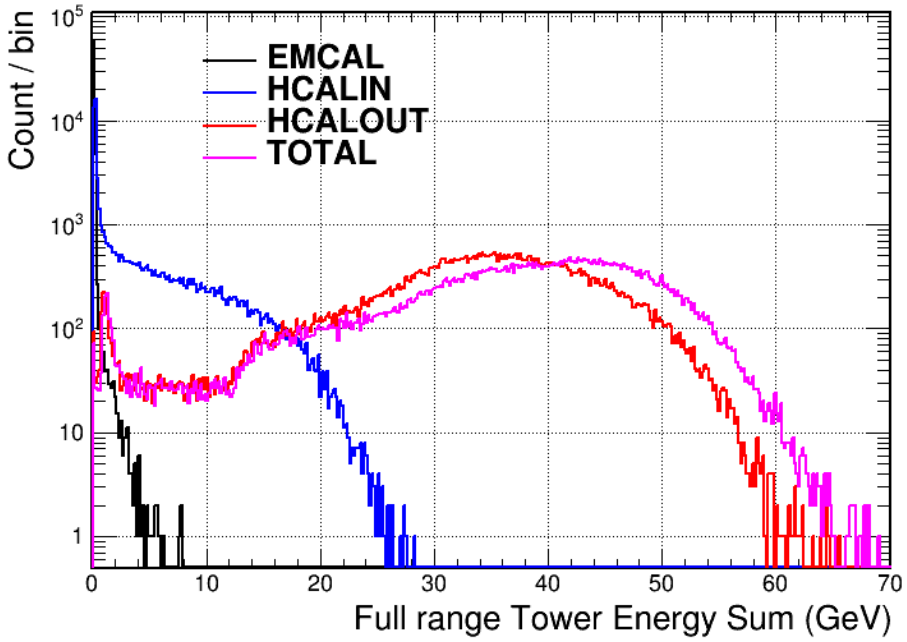

<E> = 33.7 ΔE/<E> = 19.3%
χ² / ndf 2093 / 108
Prob 0
Constant 829 ± 6.8
Mean 33.65 ± 0.05
Sigma 6.51 ± 0.04
Count / bin
Full range Tower Energy Sum (GeV)

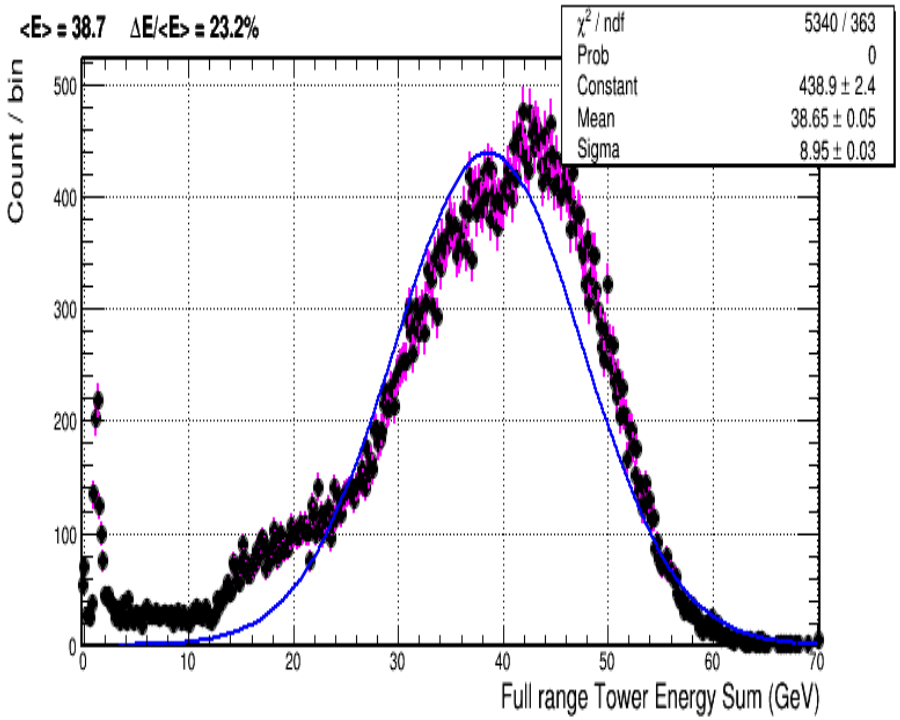
+60 GeV


EMCAL
HCALIN
HCALOUT
TOTAL
Count / bin
Full range Tower Energy Sum (GeV)

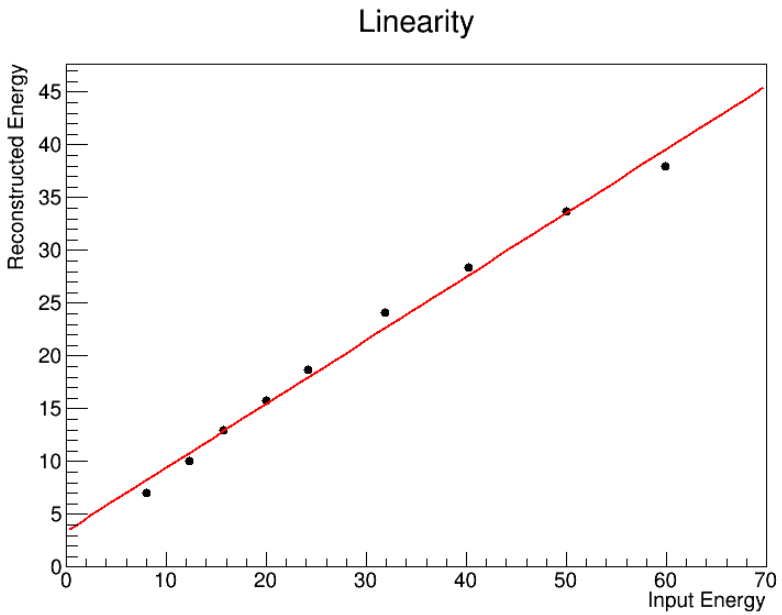

<E> = 38.0 ΔE/<E> = 19.3%
χ² / ndf 1.17e+04 / 128
Prob 0
Constant 3751 ± 13.2
Mean 38.02 ± 0.02
Sigma 7.349 ± 0.017
Count / bin
Full range Tower Energy Sum (GeV)

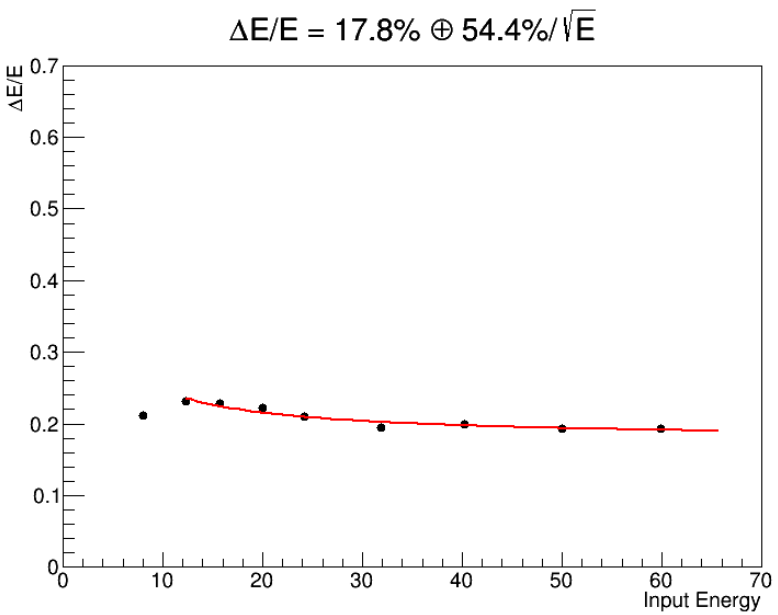
+66 GeV


EMCAL
HCALIN
HCALOUT
TOTAL
Count / bin
Full range Tower Energy Sum (GeV)

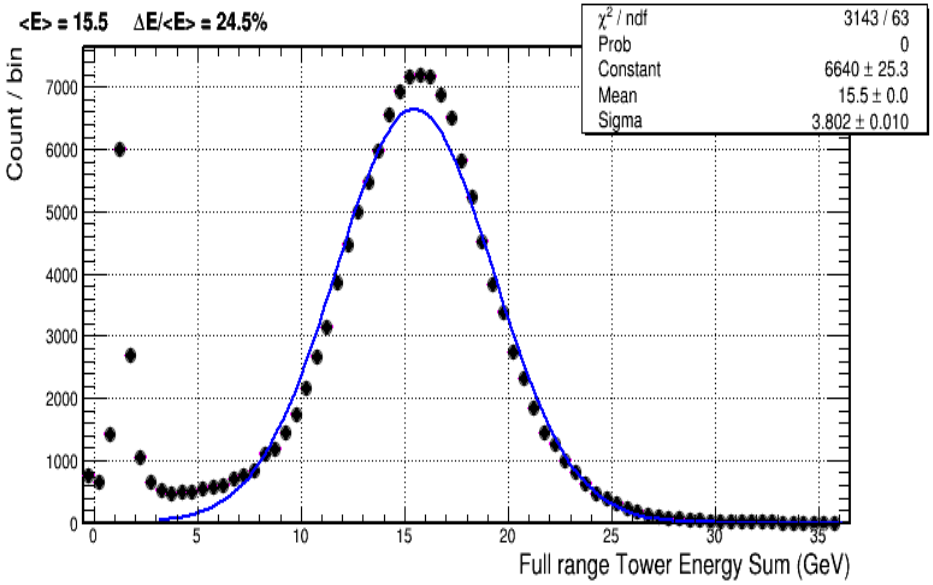

<E> = 38.7 ΔE/<E> = 23.2%
χ² / ndf 5340 / 363
Prob 0
Constant 438.9 ± 2.4
Mean 38.65 ± 0.05
Sigma 8.95 ± 0.03
Count / bin
Full range Tower Energy Sum (GeV)

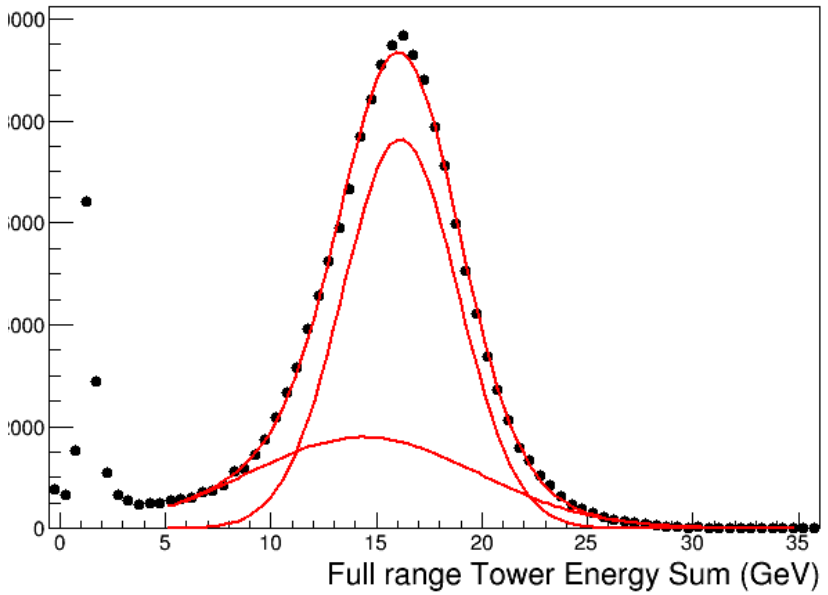
Too good to be true?





Fit





Double Gaussian fit works better?
What does it mean?